More Ado About Northers Dostroet Richael Redlead walka College Cantressofelos quelias between such florderotions magural lenglation always exist Consisteen of the condition will keylow refit do partile delictors defect?

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More Ado About Nothing introduction The vacuum pohaves very de lowest gergy 3000 elyppialue for Bartide number operators. So it is a state no postroles in it. But locally it seething weth activity . Charge deputies and The local observable exhibit fludualisas and condations, which prodoce absorble producted catilations to the projection Manuget exhibited by ap and mopote feel. In order undustavel relativistre vacuum between such a romoballe us fegin les catrashing thopy of me quantry the Schri 40 obtain the Dend-Jusian' of the N- Particle Schridlioges equilin x Rus emperation deratar N=) has engavalues o definite newper of particles en space. 20/1 4/2 will the newton of partides Volume to two disjust Lot Commate weet N. Cover to whole of speel will of disject volumes Vi a CA collection

no can set if a state of the feel partite soul the solute News particles N' in that particular state. To Vacuum is the state and love du all the Mi for any desjort covery of the whole of sport Words it makes source. To say that a book vacuum. This need consider beloves the global and the local vacuum, is utat breaks down in relations de field stones: Attents to define Excel number oferetors of fartiles

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continuation can to created locally to the field not this paralleles to be to paid the possibility of slarp values for the local garaters N.T. But this type of interpretation can The potentially the Carling. It suggests that the are beauty partiale soforing to get to global particle for a different sort of interprotetion, vaz- that in the relatives themes the there are no good they do localized particle states that the state so assecuted with global aspects of the state state of the state state of the state of t Here are two lives of argunant low fold there was asymptotic scattering states. Such states and associated muit definite maration but no present Cocoleration is Houpes to define on inavat 1.0. Particles us downed to findere of the Cocaleges at all can and the Cooked in one Locatz Congr Cocabied. His is the egserbot reason of the organism desposeer of location states described by Hegyplat (3)

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2. The Keet-Schlieber Theorem and 54s Souphisbens we first emploier what is meant is the daen stat Si o agalie for R(0) with respect to the Hillest sport H. This your near set EAR: A E B(O) (1) dong in to or in other words acting on with delitrary elevents of \$10) can approximate as closely as we like The Rech-Scheder thrown Just Days! Let 0 be any bounded for set. Re It is exclue for R(0). Why is the reject so suprisury, wer In pre-asimate disensions theny the Hilbert sport to mas regarded as been scalfolded by ley supported particles mere themseles all gented for to vacuum states ly mertale creation frators. So in other works on redor in 14 could be but up by Japounforing to aguet of grufolls operates action on D. hald stay the motes it wasnoted denant of the state of algebra R suitelle of the super sport of the suite of the su other words we coved quite asked to be exclis for & with respect to of-

But the Red - 3 chlicke regelt is much strager clar that: It down that Corred oper set in sporting. So must part be the neighbourhood of son particular front in space Flene. First too how could actury sout the elevents of noth on R(D) all, afformate as -whitny state of the field of particular Vacuum in some distant, spoglede referrated perfected 0 3 millors invakery gras violations' of Coality? respect and the resolution of the offerest purados, I first unt the draw attentions to an emportant corollary of the Roch - Schooler thereon: It is not only Cyclie for 8(0), but is own a separatery redot for Qu). What the means · that if A E R(0) then A SUR = 0 = DAg=0. In other words if two denote A, MA of a local algebra gold the sant water water water and they must be and gold the sant water and they must be and gold the sant water and they must be and supposed to be an appropriate to description to my local algobra. How are no to contespet the Right-We begin to making Schloder Theren: some remarks about the patient of dereters occurring in R(0). First I all the are projection ferators, when persters have eigenides on I, and we sholl

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(P14/11941) 15 Tow 1001 (12/11) = P. 106 (Pe-1) = _ [12 7 4/18 2411 = (P, Pa) 4 / (P) 4 Where we have aret the fact that i'm's Jes a considered problem, and a raying It condation (3) En le unter or K Juin Ti, 31, 21. 21, 12)4 = 21/4 Lastin of letwer V, not 12 le land C(11/2) = 20,02 /4 - 211/4 252,4 [LP124 (1- 21/4) 212/4 (5- 6/2/4) To condition (3') beens th 31 a.t. c(h, h) = (2124 (1-22)

We begen by prony the following weaker result. Thereon 5: The taly B-5 Wearn while that YR 38, 5.t. 1 Pilos + 2017 2 (82)4 Wo assure that him non-trivial.

10. we exclude $S_1 = C$ on I for which Therem 5 clearly foils.

Throof of Assure $28,5-1_4 = 28,7_4$ P2/4

For some given projected $F_2 \in 57_2$ y and In ill projectes P. E K. let Pr = P2 - LA mit Jon (Piz 8224 = C, 48, 8 A) & Palx? 10 attended to Piix HERZ 10 a Confinction of projections it follow that P2/4) is orthogen is to

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itte that (3") does not say E(1110/2) = th, 30, st. ((1), 12) = 1 Ther only of fluer when 211/4 = 252/4, a situation to what is it hofist in the infit state executes in the si fa in las exhibited (3') d) d the R-S thelen . I down to is in unit to denomphate within the content of the date in 5 In order with fire the lang of 5 can can and simulting a can can. tet frile isone state for itel so toly besole by the tothe will of of the in A, not He the Mighan of the house the Breach & of 18 as for the the late, it steam into 11/5 E. & E., 12 H, ER, 21. 1-17- 6, 14)

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creax 14 12/4) Hon by Construction 2 Par4 = 1 for skick by composterated on H, 14/= C/4) The esistend of such a inquatories It frances to m Some sinds 24/QB2 H) = 1 uloso q = ctc inci as soft it indis efection it, $Q = 2, P + 2, \Gamma$ from 7 While 2, 2, and the first projections Litelat () in in work. EEB AN Chila) + - W2 Lilling

while wife I, < Pily Wr= 22251)4 But + 42 n (4) 1/147/1 = 1 Hence from 60 | (12+7/1=/ Mul infles 24/8/4)=1 19. 2, LI, 2+ 2, ZF/7-=1 where W, 30 and Wa 710. From Now, wang (0), 36 LH-5 2. H- S. (9) & Mas (21,82)4 (5,62)4) So moch, en satisfy of 10 ms Mas (<1,54) 25/4 = 1 That is to, say one of other (is both) of,

Front I satisfy (3') so ley

existential generalization (3') is true (8E.). What Theorem 4 shows is that from

that guen any projected on the there achiers to record the sund for the safest to fixed voices of LP, and LS 14, non the the continuous quaraliza to the fact theny case, it we remember that the State-Schider though asserts but that any shold in the concern, that and that the concern, that and that are state as a short of the care. So Person 4 lecones. 3 P, ER(Os) . D. t. LP+B2/0 > (1-E) LPI) Wif fren et as cen sercies le let not son to be aware if the covery to melications

Inverteen & The formal proof is shotated on all Afferdes. Applying Proof of Thereun 4 roof: Choose & = Parl so my construction < la /p = 1 and ++++ Her by the kech-Salloder zhonem, $\forall \epsilon > 0$, $\exists c$, $\epsilon R(0)$ s.t. $||2 - \phi|| \leftarrow \epsilon$ where $\phi' = C_1 \Omega$ As a preliminary bound that c, can additionally be hopen so as to make ||4'||=1. To see this , introduce \$ " = \$ / 119"11 De ley Construction 1/4" 1 = 1 Hon 49 4 1 6" 411-That, from 1/6-41/2E, as and dedoct. 114"-411 ZE=EVZ(ITE) So reverting to \$1 in place of \$1' and \$
on place of \$2' and \$2 lemand is graved. we not rober rost that LP2701 7 1-28 This Jollans at once from the inequality 262741 - LB2 5 11 4 11. 11 4-41) 7 114-411.11411

Now Cowades with Lla/41 = / 2, Pa/2 where Q = C, C, is bounded self-agoustord positive. <math>Q, may be approximated
arbitrarily closely be a finite sum of
its spected projections? what this means, is
that the rule can choose onto specter Q,

and that $Q_1 = \frac{2}{2} \lambda i P_i$ n v a finite integer ord fragation grapeter in the KEYR, 1 9, - 9, 1/2 E'. In general $\angle A, /_{\Sigma} \neq 1$, but as an our previous lemma are can always adjust $A, +_{\Sigma}$ surply ley denudy it by $\angle A, /_{\Sigma}$, so that the additional condition $\angle A, /_{\Sigma}$ is This means that we can always aways that 三元(C)2=1 Now Couridon La, Pan Since / LB, P2 /2 - LB, P2/2 = ((0, -2)19/2) 4 E ut Jollans that 20,1/2/2 > 20,1/2/2 - E, = < Pa/p1 - E > 1-2E-E

But 18, 12/2 = \(\frac{1}{2}\) \(\frac{1}\) \(\frac{1}{2}\) \(Were Wi= Zi L !! Tr and have \(\frac{2}{2} = \vi_i = 1\) So 28, 67/2 4 Max { < [] []] } But each quantit in the get is ! The So it follows. That Max { 2 11/2/2 > 1-28-8 from wheel the Flexent follows woundedes

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Vocamen. 3 Conclusions on the design - defended to Colonia St is amfeitent to realize that receiver constituted are not extensional of destand, as not beller to fell and, as the content of the collisions on a scall set by the content wouldn't of a phrish field the content wouldn't be a phrish that the content of a phrish that the content of the con The state that the product of the state of distances of the state of distances of the state of distances of the state of t Del the valities. But the relation fat Hophed ta hegetus I, ERCU, and in ERCU, 28, Pa /2 - 28, 20 Chi/2 - -m? - UTP, 12113 - 11/2/2113 4 eme & 2 max 117,7211.

minimum lovests distacl between speel the sopredes Oud On fact strong and when make to C=1) from (12) we obtain sumediately the factoring $c(l_1 l_2) = ml$ $\frac{1}{\sqrt{(1-l_1 l_2)} \cdot (1-l_2 l_2)}$ Containing (3") he sec $2 \frac{1}{1 - 2 \frac{1}{2} \frac{1}{2}} = -\frac{2m}{1 - 2 \frac{1}{2} \frac{1}{2}} = -\frac{144}{1 - 2 \frac{1}{2} \frac{1}{2} \frac{1}{2}}$ In the words the i', whole exercise is asserted in (3") must alore to the first have a given probable of 12 for whole of 12 for the file of the formal of 12 for whole of 12 for the file of the formal of 12. This regard from how to the the the state of the the state of the stat These stracts are that class of house state the state of landar " " " chooses spee and show state local legators can alway state local legators can alway that local legators can alway the class of the state local legators can alway the class of a la properties of the state legators as the properties of the state of

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11/15. Dev. D, In 3220 (19 7. G.C. if Eggs falt, " Remark a causately and partiet Culingder 455.1201 uzhy, Interdador to Hydrain Gunton Files \$18. R. Haag, Look Quartur Physics (Springer, Berlin, 12 las of the second of the se 17. W. Dr. 1855 Cor Cementerents Eight Cam, I renderleus end 8) 8. K.F. Ho elling ord K. K. Jans "Churchers and measureds, II", Jum. Het Dus, 16, 142 (1979) 9) 9. A.L. Lickt, "Lical states", J. Math. Phys, 7, 1656 (1966) A remark on the claster Therein 10) W. Kt redenhogen vedetes Bell's angualetis" Phys Int ", Phys. Latt 110A 257 (1985) (12) 12. Landad L. J. Landau, "On the moduling of Soll's wageding in warkin Beary", Phys. Lett. A, 120, 54 (1987) 13. L. J. Loudas, "The Vocumen trates Bell's newalites, 12/45. well. A, 123, 115 (1987) 1) On the men-admit finded of es; "Valley" Afternand the Devised Top leafers deplease in toward ollys. rolahvistic qualturi -31 (1989)

To prove th 3P, St. $\langle P_2P_1 \rangle_2 \rangle \langle 1-E \rangle \langle P_1 \rangle_2$ 1. Note $|Z\phi|\psi\rangle \neq ||\phi\rangle||\cdot||\psi||$.

Proof $|Z\phi|\psi\rangle \neq ||\phi\rangle||\cdot||\psi||$. $|Z\phi|\psi\rangle + |Z\psi|\psi\rangle = ||\phi\rangle||\cdot||\psi\rangle|$ $|Z\phi|\psi\rangle + |Z\psi|\psi\rangle = ||Z\phi|\psi\rangle = ||Z\phi|\psi$

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Carinder (P) 4 = 1 Where 24 = 62 12 114/1-1 now Take it whose 1/4/1=1 and it = C, /2 and $||4-4|| \in \varepsilon$, Hen 2/2/2 = 24/1/2 4) = 1 Jence P2 + (1-P2)= ad (P2/2 7 1- E fine. LP274 - 262/24 - /24/12/4) - 24/12/4> = \ <4'182\4'\- <4'182\4'\ + <418214) = /24'1Ba/A4> +(A4/12/4) le D7=4-4. £ /24/12/04> + /204/12/47 = ||+1|.110411 + 110411.11411 2 11041 = 28, is chouse. E' = 2E, der a fellen. now Couries 28274 = (8/2)4 4= etc The 11 8'-911 LE2

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S. / L & B2 /4 - LA Bi /4 = 1 24/9/2/4) - 24/4/5/2/4>/ = 124 (8-9) 62 47 4 112411. €2 11411 3= €2. ·.. (8 /2/4) (28 /2/4 - Ez. = 4/2/2/1 - 82 フ 1- 28,- 8元 But 2012/4 = 2 Wi 4 1012/4 Jules Wi = di Llity 5. Eur = La/2 = 1+ Ez. = (i+ Ez) Mos (Listy)

= (i+ Ez) Mos (Listy)

: as us no fl conting mulig 4 = not Listedy (11 Ez) x 7 1-28, - E. $\frac{1-2\xi_{1}-\xi_{1}}{1+\xi_{1}} = \frac{1-2\xi_{1}-\xi_{2}}{1+\xi_{1}} + \frac{1-2\xi_{1}-\xi_{2}}{1+\xi_{1}}$ $= 1-\xi$ where $\xi = 2\xi_{1}+2\xi_{2}-2\xi_{1}\xi_{2}-\xi_{1}$

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Subre as 112+ - # 1 = E (N ulere 1/41/ = 1 Then reflect it by 4-4-/114'11 ad we leve. 114"11= 1 by construction and 114"-41/ 3/114"11-11411) =0. But 114-41 = 114 - 41 ad fra (1) | 114/11-11411 = E : | | | 4 | - | = 5. di 11411 Z 1+ 8 : 4" = 4' = 1 ± E. u H4"-4" | | 2" 41) = | 4 - 2 4 | Were 2= 1 2. = = 1 14- 24/ = = 1 (4-94, 2-27) = = +12-9 (4,4)+44) == + 212+22-(432(4,4) + (9-)4)-(13)

11 27 - 24 11 4 = 1 (2-1) (2+1) - 2 Re(4,4) $= \frac{1}{1-\epsilon} \sqrt{\frac{\epsilon^{2}+(2-\nu)[(2+1)-2Ro(4\pi)\nu]}{(2+1)-2Ro(4\pi)\nu}}$ $= \frac{1}{1-\epsilon} \sqrt{\frac{\epsilon^{2}+(2-\nu)[(2+1)-2Ro(4\pi)\nu]}{(2-1)-2Ro(4\pi)\nu}}$ $= \frac{1}{1-\epsilon} \sqrt{\frac{\epsilon^{2}+(2-\nu)[(2+1)-2Ro(4\pi)\nu]}{(2-1)-2\epsilon}}$ $= \frac{1}{1-\epsilon} \sqrt{\frac{\epsilon^{2}+(2-\nu)[(2+\nu)-2Ro(4\pi)\nu]}{(2-1)-2\epsilon}}$ $= \frac{1}{1-\epsilon} \sqrt{\frac{\epsilon^{2}+(2-\nu)[(2$ Ware (4-4,4-4) = & a 412 + 42 2 Re (4,41) 2 E 02 9+1-2Ro(244) 4 8 ·· 9-2 + [(2+1)-2R (+4) (= 18. ci (2+1)-28(44) (5 = +20-1) son 149 - 2 6 8-1 :- 1-2 L E , and 1-2 7-E ne cho hon that 1 = 22+1-22 (44) > 0 S1 (2+1) - 2 Re (4,22) 7, 2 (1-1). 7 (1-E)(-E) = - E(LE)

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on write 3 = 8 / 18124 Her by construction 18" Try = 1 So we reason & Wi = 1 Were wi = Wi . an the , give 112-681/2- 22 (= || B' - 2|| 9 = LA'24 21 ± E = 11 8'-20 | = \frac{1}{2} | 18-20 | and then seen semble anopen as int was the Spectas & redus the Lovelou (1987) - que per ighthing proof as Confavd und y as

Shephard 34509 303 181 |a-2| = 82 972 0-2 = 8-2 d = 2 + Ez 97 2719-82. 127/9-82 a 22. 2-a = 8-2. 67.0.7 d-82. Va-2. az E 77 a- 82. ad. 25 a + 82

Fodorlagen brond sup 20, 82/4-20,)4 L P2/4 L e mt ||P,4||? ||h4||2 - em). 118411. 1182411 = em / 2Pily. 2824 of Veller saturday land of color (1-12), (1-10), Long (1-10), (1-10), 2P,74 = 0m3, 2P274 (1-2P274)2.

1/2 WZBiry. VI ZBir Theorem 3. lender the 1) y ther is becomes a Soly Satisfacy 28. 1/2. L.1 the Cardeties the modernoon c (On, P.) in The large Contellous Pack (Px 113) Coelleur Condober probabile Enge value In the Coefficant. Condition

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